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On July 15, 2004

TOWNSEND and TOWNSEND and CREW LLP

By: [Signature]

PATENT
Attorney Docket No.: 004906-018110US
Client Ref. No.: AG100196
SMH(303)
7/22/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ROLF E. HAMKE

Application No.: 10/729,866

Filed: December 5, 2003

For: FLUIDICS-BALANCED FLUID
BEARING

Customer No.: 20350

Confirmation No.

Examiner: Unknown

Technology Center/Art Unit: 3682

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RESPONSE

Mail Stop L & R
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Sir:

The attached STATEMENT OF CIRCUMSTANCES UNDER WHICH INVENTION WAS MADE AND CONCEIVED is submitted in response to the Notice mailed on June 22, 2004, from the Licensing and Review Section of the United States Patent and Trademark Office.

Respectfully submitted,

[Signature]

M. Henry Heines
Reg. No. 28,219

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 415-576-0200; Fax: 415-576-0300

MHH:mhh
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**STATEMENT OF CIRCUMSTANCES
UNDER WHICH INVENTION WAS
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Alexandria, VA 22313-1450

Sir:

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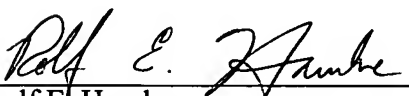
I, ROLF E. HAMKE, a citizen of the United States of America, residing at 2309 Farndon Court, Folsom, CA 95630, USA, declare:

That I made and conceived the invention described in patent application Serial Number 10/729,866, filed in the United States of America on December 5, 2003, titled "FLUIDICS-BALANCED FLUID BEARING;"

That I made and conceived the invention while employed by Gencorp; that the invention is related to the work I am employed to perform and was made within the scope of my employment duties; that the invention was made during working hours and with the use of facilities, equipment, materials, funds, information and services of Gencorp; and

That to the best of my knowledge and belief, the invention was not made (conceived or first actually reduced to practice) under, nor is there any relationship of the invention to the performance of any work under, any contract of the National Aeronautics and Space Administration.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

 Date: 7/12/04

Rolf E. Hamke
2309 Farndon Court, Folsom, CA 95630

MHH:mhh
60253573 v1

Wm 00506-011025

Two Embarcadero Center
8th Floor
San Francisco
California 94111-3834

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1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl a is essential for the light-dependent reactions of photosynthesis, where it converts light energy into chemical energy in the form of ATP and NADPH.

2. *Chlorophyll b* (Chl b) is an accessory pigment found in higher plants and green algae. It is a yellow-green pigment that absorbs light energy in the blue and red regions of the visible spectrum. Chl b transfers the absorbed energy to Chl a, which then uses it for photosynthesis.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They are responsible for the yellow, orange, and red colors seen in autumn foliage. Carotenoids absorb light energy in the blue and green regions of the visible spectrum and transfer the energy to Chl a. They also play a role in protecting the plant from damage caused by excess light energy.

4. *Anthocyanins* are water-soluble pigments that give plants their red, purple, and blue colors. They are not directly involved in photosynthesis but can protect the plant from damage caused by UV radiation and other environmental stressors.

5. *Flavonoids* are a large group of pigments that include flavones, flavonols, and flavanones. They are responsible for the yellow, orange, and red colors seen in many flowers and fruits. Flavonoids also play a role in plant defense against herbivores and pathogens.

6. *Anthoxanthins* are a group of pigments that include anthoxanthins and xanthoxanthins. They are responsible for the yellow and white colors seen in many flowers and fruits. Anthoxanthins also play a role in plant defense against herbivores and pathogens.

7. *Anthocyanins* are a group of pigments that include anthocyanins and xanthocyanins. They are responsible for the red, purple, and blue colors seen in many flowers and fruits. Anthocyanins also play a role in plant defense against herbivores and pathogens.

8. *Anthocyanins* are a group of pigments that include anthocyanins and xanthocyanins. They are responsible for the red, purple, and blue colors seen in many flowers and fruits. Anthocyanins also play a role in plant defense against herbivores and pathogens.

9. *Anthocyanins* are a group of pigments that include anthocyanins and xanthocyanins. They are responsible for the red, purple, and blue colors seen in many flowers and fruits. Anthocyanins also play a role in plant defense against herbivores and pathogens.

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